UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/068,001	02/08/2002	Billy Hogan	2380-604	6407

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EXAMINER
NGUYEN, KHAI MINH

ART UNIT	PAPER NUMBER
2617	

DATE MAILED: 05/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)
Office Action Summary	10/068,001	HOGAN ET AL.
	Examiner	**Art Unit**	
	Khai M. Nguyen	2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on _06 February 2006_.

2a) ☐ This action is **FINAL**.   2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) _1-19, 42-72, 87-89_ is/are pending in the application.

    4a) Of the above claim(s) _20-41 and 73-86_ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) _1-4, 15, 16, 42-45, 50, 51, 54-57, 66-68 and 87-89_ is/are rejected.

7) ☒ Claim(s) _5-14, 17-19, 46-49, 52, 53, 58-65 and 69-72_ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: _____.

DETAILED ACTION

Response to Arguments

1.   Applicant's argument with respect to claim 1-19, 42-72 and 87-89 have been

considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 15-16, 42-45, 50-51, 54-57, 66-68 and 87-89 are rejected under 35

U.S.C. 103(a) as being unpatentable over Koo et al. (U.S.Pat-6889040) in view of Moles

et al. (U.S.Pat-6725056).

Regarding claim 1, Koo teaches a telecommunications network comprising a

radio access network which generates and transmits (fig.1), in a broadcast channel over

an air interface (fig.1, element 14, 16), an access group eligibility message which

enables a user equipment unit which receives the access group eligibility message to

make a determination whether the user equipment unit is eligible to operate in a cell for

which the access group eligibility message is transmitted (fig.1-2, abstract, col.1, lines

48-54), the determination involving a comparison of access group eligibility information

transmitted in the access group message and an access group classification (fig.1-2,

abstract, col.1, lines 48-54)

Koo fails to specifically disclose the access group classification having been generated by a core network node which classified the user equipment unit into at least one of plural access groups. However, Moles teaches the access group classification having been generated by a core network node which classified the user equipment unit into at least one of plural access groups (fig.1-2, 5, abstract, col.2, lines 1-54). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the access group classification having been generated by a core network node which classified the user equipment unit into at least one of plural access groups as taught by Moles with Koo teaching in order to improved systems and method for performing automatic service provisioning of wireless handsets.

Regarding claim 2, Moles and Koo further teaches the apparatus of claim 1, wherein the access group eligibility message indicates what subscriber groups are eligible to operate in the cell for which the access group eligibility message is transmitted (see Koo, fig.1-2, abstract, col.1, lines 48-54).

Regarding claim 3, Moles and Koo further teaches the apparatus of claim 1, wherein the access group eligibility message indicates what restriction groups are not eligible to operate in the cell for which the access group eligibility message is transmitted (see Koo, abstract, see Moles, col.7, line 48 to col.8, line 14).

Regarding claim 4, Moles and Koo further teaches the apparatus of claim 1, wherein the access group eligibility message includes a bitmap which indicates eligibility for plural access groups (see Koo, fig.2, col.2, lines 31-60).

Regarding claim 15, Moles and Koo further teaches the apparatus of claim 1, wherein the access group classification message is one of a location update response (see Moles, col.6, line 47 to col.7, line 12) and a location update reject message which includes the access group classification (see Moles, col.6, line 47 to col.7, line 12).

Regarding claim 16, Moles and Koo further teaches the apparatus of claim 1, wherein the access group classification message is one of a location update response (see Moles, col.6, line 47 to col.7, line 12) and a location update reject message which includes the access group classification and a version field associated with the access group classification (see Moles, col.6, line 47 to col.7, line 12).

Regarding claim 42, Koo teaches a user equipment unit which receives over an air interface an access group classification message (fig.1) and an access group eligibility message (fig.1, element 14, 16, abstract), the access group classification message being generated by a core network node for advising the user equipment unit as to which of the plural access groups the user equipment unit belongs (fig.1-2, abstract, col.1, lines 48-54), the access group eligibility message being generated by a radio access network node for specifying eligibility of plural access groups to operate in a cell for which the access group eligibility message is transmitted (fig.1-2, abstract, col.1, lines 48-54), the user equipment unit comprising:

compares the stored access group classification with contents of the access group eligibility message to determine whether the user equipment unit is allowed

access to the cell for which the access group eligibility message is transmitted (fig.1-2, abstract, col.1, lines 48-54).

Koo fails to specifically disclose an access controller which stores an access group classification obtained from the access group eligibility message. However, Moles teaches an access controller which stores an access group classification obtained from the access group eligibility message (fig.1-2, 5, abstract, col.2, lines 1-54). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use an access controller which stores an access group classification obtained from the access group eligibility message as taught by Moles with Koo teaching in order to improved systems and method for performing automatic service provisioning of wireless handsets.

Regarding claim 43, Moles and Koo further teaches the apparatus of claim 42, wherein the access group eligibility message indicates what subscriber groups are eligible to operate in the cell for which the access group eligibility message is transmitted (see Koo, fig.1-2, abstract, col.1, lines 48-54).

Regarding claim 44, Moles and Koo further teaches the apparatus of claim 42, wherein the access group eligibility message indicates what restriction groups are not eligible to operate in the cell for which the access group eligibility message is transmitted (see Moles, col.6, line 47 to col.7, line 12).

Regarding claim 45, Moles and Koo further teaches the apparatus of claim 42, wherein the access group eligibility message includes a bitmap which indicates eligibility for plural access groups (see Koo, fig.2, col.2, lines 31-60).

Regarding claim 50, Moles and Koo further teaches the apparatus of claim 42, wherein the access group classification message is one of a location update response (see Moles, col.6, line 47 to col.7, line 12) and a location update reject message which includes the access group classification (see Moles, col.6, line 47 to col.7, line 12).

Regarding claim 51, Moles and Koo further teaches the apparatus of claim 42, wherein the access group classification message includes the access group classification (see Moles, col.6, line 47 to col.7, line 12) and a version field associated with the access group classification (see Moles, col.6, line 47 to col.7, line 12).

Regarding claim 54, Koo teaches a method of operating a telecommunications network comprising:

transmitting, in a broadcast channel over an air interface (fig.1), an access group eligibility message generated by a radio access network (fig.1-2, abstract);

a user equipment unit which receives the access group eligibility message (fig.1-2, abstract) and which user the access group eligibility message to make determination whether the user equipment unit is eligible to operate in a cell for which the access group eligibility message is transmitted (fig.1-2, abstract), involving a comparison of access group eligibility information transmitted in the access group message (fig.1-2, abstract) and

Koo fails to specifically disclose an access group classification which is generated by a core network. However, Moles teaches an access group classification which is generated by a core network (fig.1-2, 5, abstract, col.2, lines 1-54). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use an access group classification which is generated by a core network as taught by Moles with Koo teaching in order to improved systems and method for performing automatic service provisioning of wireless handsets.

Regarding claim 55, Moles and Koo further teaches the method of claim 54, further comprising including in the access group eligibility message an indication of what subscriber groups are eligible to operate in the cell for which the access group eligibility message is transmitted (see Koo, fig.1-2, col.1, lines 48-54).

Regarding claim 56, Moles and Koo further teaches the method of claim 54, further comprising including in the access group eligibility message an indication of what restriction groups are not eligible to operate in the cell for which the access group eligibility message is transmitted (see Koo, abstract, see Moles, col.6, line 47 to col.7, line 12).

Regarding claim 57, Moles and Koo further teaches the method of claim 54, further comprising including in the access group eligibility message a bitmap which indicates eligibility for plural access groups (see Koo, fig.2, col.2, lines 31-60).

Regarding claim 66, Moles and Koo further teaches the method of claim 54, further comprising:

upon the user equipment unit entering a new cell which involves a transition to a new location area (see Moles, col.6, line 47 to col.7, line 12), checking the access group eligibility message transmitted for the new cell (see Moles, col.6, line 47 to col.7, line 12); and

comparing the stored access group classification with contents of the access group eligibility message to determine whether the user equipment unit is allowed access to the new cell (see Koo, abstract, see Moles, col.6, line 47 to col.7, line 12).

Regarding claim 67, Moles and Koo further teaches the method of claim 66, further comprising, upon the user equipment unit entering a new cell which does not involve a transition to a new location area (see Moles, col.6, line 47 to col.7, line 12), the user equipment unit not checking the access group eligibility message (see Moles, col.6, line 47 to col.7, line 12).

Regarding claim 68, Moles and Koo further teaches the method of claim 54, wherein the access group classification message is one of a location update response (see Moles, col.6, line 47 to col.7, line 12) and a location update reject message which includes the access group classification (see Moles, col.6, line 47 to col.7, line 12).

Regarding claims 87-89, Moles and Koo further teaches the apparatus of claims 1, 42 and 54, where the access group eligibility information comprises a subscriber group having a composition pre-agreed with a network operator (see Moles, col.6, line 47 to col.7, line 65).

Allowable Subject Matter

3.   Claims 5-14, 17-19, 46-49, 52-53, 58-65, and 69-72 are objected to as being

dependent upon a rejected base claim, but would be allowable if rewritten in

independent form including all of the limitations of the base claim and any intervening

claims.

Conclusion

4.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Khai M. Nguyen whose telephone number is

571.272.7923. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, George Eng can be reached on 571.272.7495. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).
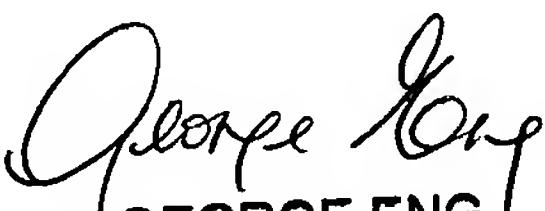
GEORGE ENG
SUPERVISORY PATENT EXAMINER

Khai Nguyen
Au: 2617   4/24/2006